REMARKS AND ARGUMENTS

This amendment is submitted in response to the Office Action mailed January

29, 2003. In view of the above claim amendments and the remarks that follow,

reconsideration of the patentability of applicants' claims is requested respectfully.

Status of the Claims

The Examiner's Action addresses claims 1, 2, 6, 8 to 12, and 22 to 41. Claims

3 to 5, 7, 13 to 21, and 42 have been cancelled, without prejudice, in a preliminary

amendment. Claims 1, 2, 6, 8 to 12, and 22 to 41 are pending. Claims 1, 2, 6, 8 to

12, 22 to 25 and 28 to 41 have been rejected and claims 26 and 27 have been objected

to on formal grounds. Claims 25 and 29 have been amended, claim 23 has been

cancelled without prejudice, and no claims have been added. Accordingly, there is

presented for the Examiner's consideration claims 1, 2, 6, 8 to 12, 22, and 24 to 41.

Summary of Examiner's Rejections

Claims 1, 2, 6, 8 to 12, 21 to 25, and 28 to 41 have been rejected as indefinite

under 35 U.S.C. §112, second paragraph. In claim 1, the Examiner has pointed out

that the recited substructure of the compounds of the invention which corresponds to

a pyrrolopyridine fused ring moiety is fully substituted, and therefore presents no point

-28-

of attachment to the remainder of the claimed structure and in addition is referenced

inconsistently within the claim.

Additionally, claims 2, 6, 8 to 12, 21, 22, 24, 25, 28, and 30 to 41 have been

rejected as being dependent upon rejected claims.

Claims 23 and 29 have been rejected as lacking antecedent basis in the claims

from which they depend for terms used therein. Additionally, the Examiner has

objected to claims 20 and 27 because they depend from a rejected base claim, and has

stated that they would be allowable if rewritten to be independent claims incorporating

the limitations of their respective base claims.

In claim 23, the Examiner considers the phrase "proximal ring" to lack

antecedent basis because the term is not recited in base claim 1.

The Examiner has rejected claim 29, which depends from claim 1, because claim

1 defines compositions comprising an azaheterocyclamine portion bonded via an alkyl

or substituted alkyl portion to a pyrrolopyridine-based portion but claim 29 defines both

compounds having a pyrrolopyridine-based portion as well as a compound which has

-29-

in place of a pyrrolopyridine-based portion a pyrridine-based portion, and accordingly, claim 29 lacks antecedent basis in claim 1.

The Examiners rejections are respectfully traversed in view of the above claim amendments for the reasons set forth hereinafter.

Applicants' invention is directed to compounds and the therapeutic use thereof which comprise an azaheterocycylamine portion and bonded thereto, a monocycyl or bicycloheteroaryl portion (designated Ar¹), as summarized by Formula I

$$X_3$$
 X_4
 X_1
 X_2
 X_1
 X_2
 X_3
 X_4
 X_1
 X_2
 X_3
 X_4
 X_2
 X_3
 X_4
 X_4
 X_4
 X_5
 X_5
 X_5

wherein X_1 , X_{1a} , X_2 , X_{2a} , X_3 , X_4 , X_5 , X_{5a} , X_{5b} , R_1 , R_2 , R_3 , and "m" are as defined in claim 1, the bicycl- structure of "Ar¹" is defined in claim 1 and the monocycl- structure

of "Ar1" is as defined in claim 29.

In the preliminary amendment filed with the application, errors in the definition of the bicyclheteroaryl portion of the compound based on a pyrrolopyridine structure were introduced, defining a fully substituted fragment which had no defined point of attachment to the remaining portion of the compound. Claim 1 has been amended to correct this error. This is to say that claim 1 has been amended to unambiguously recite a generic representation of applicants' compounds that include a portion having a pyrrolopyridine structure, wherein the "Z" moiety is bonded to a carbon atom in either the 5 or 6 membered ring of the pyrrolopyridine-based portion, which is to say, any carbon atom appearing in positions 1 t 7 of the pyrrolopyridine moiety. Additionally, claim 1 has been amended to include reference to the rings of the pyrrolopyridine moiety as being proximal and distal to the point of "Z" attachment. In addition, claim 1 has been amended to indicate that substituents, X_5 , X_{5a} , and X_{5b} may appear on any of the carbon atoms in the pyrrolopyridine structure other than the one to which the "Z" moiety is bonded, and when they appear in certain specific locations (on a carbon adjacent to the point of attachment of "Z" or on a carbon adjacent to the nitrogen heteroatom of the ring distal to "Z" attachment) they are selected from a subset of the substituents included in the definition of X_5 , X_{5a} and X_{5b} .

The amendments to claim 1 are supported by the specification on page 7, line

17 to 21, wherein the specification recites that a preferred structure for the portion of

a compound of the invention represented by the "Ar¹" formula is a bicycloheteroaryl

structure based on a pyrrolopyridine moiety. Further support is found in the

specification on page 22, lines 13 to 18, wherein the structure and position of X_5 , X_{5a} ,

and X_{5h} substituents on the ring carbons of bicycloheteroaryl structures represented by

the "Ar¹" formula are discussed. The amendments to claim 1 are also supported by

original claim 23 (now cancelled), the limitations with regard to the definition of X_5 ,

 X_{5a} , and X_{5b} substituents have been incorporated into claim 1.

Claim 22 has been amended to unambiguously refer to the claimed

pyrrolopyridine moiety defined in claim 1, as amended, and accordingly, now has

proper antecedent basis in claim 1. Inclusion in claim 1 of the term "moiety" in

reference to the "Ar¹" portion of the claimed structure is supported in the original claim

language of the specification, as filed, wherein claim 21 refers to the "Ar1" portion of

the claimed compounds as a moiety. Claim 22, which originally depended from claim

21 recites the term "moiety" in reference to the "Ar¹" structure as well.

The dependency of claim 24 has been amended to reflect that the limitations of

-32-

cancelled claim 23, which depended from claim 1, have been incorporated into claim 1.

Claim 29 has been amended to an independent form permitting inclusion of an

alkyl-aminopyridine moiety in the group of structures defining x_5

therein.

The amendment to claim 29 is supported by the specification on pages 165 through 170 inclusive, which specifically describes the claimed structures and substituents, and is supported also by the language of claim 29 prior to the preliminary amendment which recites the all hydrogen-substituted azaoheterocycloxoamide moieties now defined by claim 29.

In view of the amendments to claims 1, 22, 24, 25, and 29, the Examiner's rejection of claims 1, 2, 6, 8 to 12, 21, 22, 24, 25 and 28 to 41 as indefinite under 35 U.S.C. §112, second paragraph have thus been overcome. Additionally, in view of the amendments to the claims, Examiner's rejection of claim 1 as being unclear regarding

the bonding pattern in the claim compound has been overcome, hence, Examiner's

rejection of claims 2, 6, 8 to 12, 21, 22, 24 to 28, and 30 to 41 as being dependent

upon a rejected claim has been overcome. In view of cancellation of claim 23,

Examiner's rejections to claim 23 are moot.

Additionally, claim 1 has been amended to provide proper antecedent basis for

claims 26 and 27, thus Examiner's objections to lack of antecedent basis for claims 26

and 27 have been overcome.

Accordingly, since all rejections and objections have been addressed,

reconsideration by the Examiner of the rejections and allowance of these claims is

therefore respectfully requested.

Miscellaneous

In view of the above claim amendments and remarks, this application is now in

condition for allowance. Reconsideration is respectfully requested.

-34-

A request for a one month extension, from April 24, 2003 to May 24, 2003 of the time to reply to the Action of January 24, 2003 is submitted herewith.

Respectfully submitted,

H. Eric Fischer, Esquire Registration No. 46,010

Synnestvedt & Lechner LLP 2600 Aramark Tower 1101 Market Street Philadelphia, PA 19107

Telephone: (215) 923-4466 Facsimile: (215) 923-2189

M:\EFischer\Aventis\24,450 E US1\USPTO\V3 reply to OA of 1-24-03.wpd